CONTENTS

Chemical evaluation of crude oils by programmed thermogravimetric analysis
M.M. Barbooti and T.H. El-Sharifi (Baghdad, Iraq) 1
Thermal analytical techniques applied to the narcotic field: cocaine analysis
R. Curini and S. Zamponi (Camerino, Italy), F. D'Ascenzo, S. de Angelis Curtis, A. Marino and A. Dezzi (Rome, Italy) 11
Activities in liquid Ga–Te alloys at 1120 K
S. Srpikanth and K.T. Jacob (Bangalore, India) 27
Niflumic acid–morniflumate phase diagram:
I. Study of the components
J.J. Pinvidic, A. Gonthier-Vassal and H. Szwarc (Orsay, France), R. Ceolin (Tours, France), P. Toffoli (Chatenay-Malabry, France), J.M. Teulon and C. Guechot (Rueil-Malmaison, France) 37
Thermochemical characterization of ultrafine Sr-hexaferrite
S.D. Kulkarni, C.E. Deshpande, J.J. Shrotri, V.G. Gunjikar and S.K. Date (Pune, India) 47
Chemical stability of $BaCuO_2$ in various humid atmospheres
Y. Zhang, K. Shinozaki, N. Mizutani and M. Kato (Tokyo, Japan) 63
Development of Benson group additivity method for estimation of ideal gas thermodynamic properties of polycyclic aromatic hydrocarbons
N.F. Moiseeva, O.V. Dorofeeva and V.S. Jorish (Moscow, U.S.S.R.) 77
Thermal and spectroscopic study of complexes of 5,5′-methylenebisthiosalicylic acid (MDTSA) and divalent metallic cations
F. Salinas (Extremadura, Spain), J.L. Martínez-Vidal, M. Martínez Galera and I.J. Perez-Alvarez (Almeria, Spain) 87
Potential errors in the quantitative determination of hydrated calcium sulphates in cement by differential scanning calorimetry
J.G. Dunn, K. Oliver and I. Sills (Perth, Australia) 93
Oxysalt–metal double reactions in the solid state: $Na_3Al(SO_4)_3$–Mg
M.J. Martínez-Lope, J. Zamora and M.E. García-Clavel (Madrid, Spain) 105
Thermal and spectral study of 5-chloro-4-β-D-(*o*-acetyl)-glycopyranosylaminopyrimidine derivatives
R. Lopez, M.-D. Gutierrez, M.-L. Quijano, M. Melguizo, M. Nogueras and A. Sanchez (Jaén, Spain) 113
Bomb calorimetric and NMR studies on crystalline hexaglycine
J.C. Colbert, E.S. Domalski, B. Coxon and D.L. Vanderhart (Gaithersburg, MD, U.S.A.) 123
Calculation and refinement of thermodynamic parameters from thermometric titrations.
I. Ionization enthalpies of amines in aqueous and hydro-alcoholic media
J.M. Estela, M. Far and V. Cerdá (Palma de Mallorca, Spain) 143
Thermal decomposition of $Cs_2Hg_3I_8 \cdot H_2O$
R. Sjövall (Lund, Sweden) 165
Thermal studies on the chloro compounds of cobalt(II), nickel(II) and copper(II) with 4-aminoquinaldine
J.R. Allan and B.R. Carson (Edinburgh, Gt. Britain), D.L. Gerrard and S. Hoey (Middlesex, Gt. Britain) 173
Rare-earth chromium citrates as precursors for rare-earth chromites: lanthanum biscitrato chromium(III) dihydrate, $La[Cr(C_6H_5O_7)_2] \cdot 2H_2O$
P. Sujatha Devi and M. Subba Rao (Bangalore, India) 181
Preparation and thermal stability of magnanese oxides obtained by precipitation from aqueous manganese sulphate solution
J. Pattanayak and V. Sitakara Rao (Kharagpur, India) and H.S. Maiti (Calcutta, India) 193
Thermal decomposition of sulphonamide derivative complexes. II. Thermal behaviour of complexes of acetazolamide with Ni(II), Co(II), Zn(II), Cd(II), Hg(II) and Ag(I)
S. Ferrer and J. Borras (Valencia, Spain), J. Martin-Gil and F.J. Martin-Gil (Valladolid, Spain) 205
Thermal decomposition of tertiary-butylperoxybenzoate by heat flux calorimetry
P.G. Laye and D.C. Nelson (Leeds, Gt. Britain) 221

Synthesis and thermal decomposition of piperidinium hexathiocyanatonickelate(II)
J.E. House, Jr., and L.A. Marquardt (Normal, IL, U.S.A.) 231
Thermal behaviour and electrical conductivity of acrylonitrile–*N*-(2,3-dimethyl-1-phenyl-5-oxo-3-pyrazoline-4-yl)-*N'*-acryloylthiourea copolymers
S.H. El-Hamouly and F.A. El-Saied (Shebin El-Kom, Egypt) and M.M.M. Ramiz (Menouf, Egypt) 237
Thermal analysis studies on pyridine carboxylic acid complexes of zinc(II)
J.R. Allan, W.C. Geddes, C.S. Hindle and A.E. Orr (Edinburgh, Gt. Britain) 249
An integral method to evaluate the non-isothermal kinetic parameters
E. Urbanovici (Covasna, Romania) and E. Segal (Bucharest, Romania) 257
Thermal stability and non-isothermal decomposition kinetics of some compounds of lanthanoids with chromium and gluconic acid
P.G. Schullerus, L. Patron, S. Ploştinaru, A. Conţescu and E. Segal (Bucharest, Romania) 263
Thermal decomposition of ammonium nitrate-based composites
J.C. Oxley, S.M. Kaushik and N.S. Gilson (Socorro, NM, U.S.A.) 269
A study of the decomposition of higher cobalt arsenides by thermal analysis
S.A. Mikhail, A.M. Turcotte and W.S. Bowman (Ottawa, Canada) 287
Thermodynamic functions of activation for viscous flow of some monosaccharides in aqueous solutions
C. Klofutar, S. Paljk and M. Kač (Ljubljana, Yugoslavia) 297
The glass transition in poly(3-Br-*N*-vinylcarbazole)
A. Larrinaga and L.M. León (Bilbao, Spain), J. Pielichowski (Krakow, Poland), M.C. González and F. Zamora (San Sebastian, Spain) 305
Assessment of the quantitative performance of the Stanton Redcroft Simultaneous Thermal Analyser (model 781)
F. Hongtu and P.G. Laye (Leeds, Gt. Britain) 311
Synthesis and thermal studies of Cu(II), Ag(I) and Pb(II) salts of 2,4,6-trinitroanilinoacetic acid
K.U.B. Rao, R.R. Soman and H. Singh (Pune, India) 321
A thermoanalytical approach to the study of the tissutal water of mouse salivary glans
R. Curini, S. Materazzi and G. Menghi (Camerino, Italy) 327
Thermal decomposition of dysprosium iron citrate
V.K. Sankaranarayanan and N.S. Gajbhiye (Kanpur, India) 337

Review

Nonequilibrium processes of melt solidification during programmed temperature changes and the metastable phases formation
Z. Chvoy, Z. Kožíšek and J. Šesták (Praha, Czechoslovakia) 349

Notes

Thermal properties of magnesium bisulphite hydrazinate hydrate
J.S. Budkuley and K.C. Patil (Bangalore, India) 419
Thermogravimetric study of the thermal stability of bisphenol-A polycarbonate/poly(methyl methacrylate) blends
S.H. Goh (Singapore, Singapore) 423
The boundary conditions for kinetic models
J. Málek and J.M. Criado (Sevilla, Spain), J. Šesták (Praha, Czechoslovakia) and J. Militký (Kralove, Czechoslovakia) 429

Author Index 433

Subject Index 435